

Environmental Management Performance Report

December 2001



**Pacific Northwest
National Laboratory**

Operated by Battelle for the
U.S. Department of Energy



Department of Energy
Richland Operations Office

PREPARED FOR THE U.S. DEPARTMENT OF ENERGY, RICHLAND OPERATIONS OFFICE
OFFICE OF ENVIRONMENTAL MANAGEMENT

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Introduction

This document provides the Department of Energy Richland Operations Office (DOE-RL) with a report of the Pacific Northwest National Laboratory (PNNL) performance by Battelle Memorial Institute and its subcontractors.

In Section A, the Executive Summary, text and graphics report the safety metrics status for all PNNL activities. Senior management's overall performance assessment of all Environmental Management activities conducted at PNNL is presented in a stoplight chart.

Section B, Project Performance Summary, provides a brief summary of the month's performance for the PNNL lead activity, PNNL Waste Management (PBS RL-SS01), and is presented in the narrative and Cost / Schedule Performance Stoplight. More detailed information can be found within PNNL-7911-121a, PNNL's Quarterly Project Status Report, for the first quarter of Fiscal Year (FY) 2002. Summary analyses pertaining to PNNL's support to other Project Baseline Summaries (PBSs) are addressed in the contractor's report having lead responsibility for that scope.

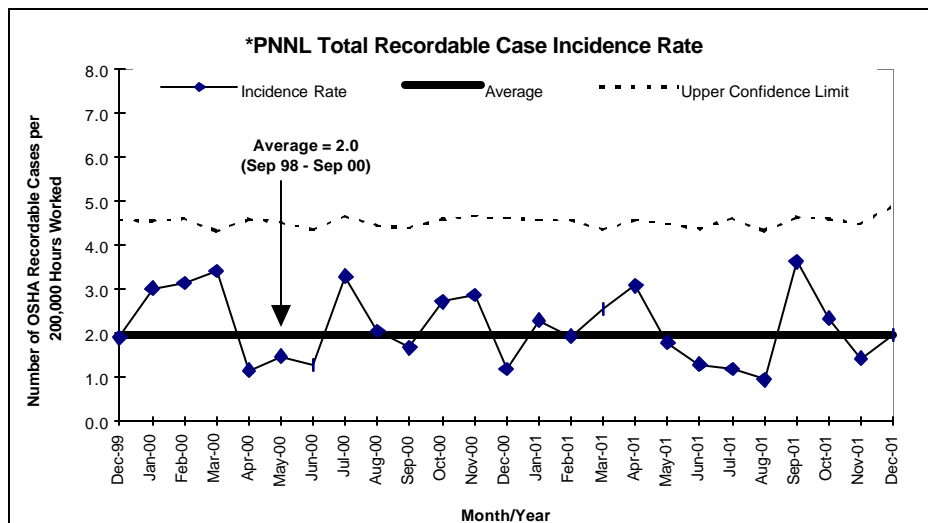
Unless otherwise noted, information in this report is current as of December 30, 2001.

This section provides an executive-level summary of performance information and is intended to bring to management's attention that information considered to be most noteworthy. This section includes an overview of safety performance and assessment spotlight charts.

Safety Overview

The focus of this section is on documenting trends in lab wide work-related injury and illness rates. These are the same performance indicators as appear in the FY 2002 Battelle Performance Evaluation and Fee Agreement, which is part of the PNNL Operations Contract. The monthly rates for Recordable and Lost Workday cases are presented graphically in this section and are monitored for statistically significant changes. Current efforts to improve performance are being made through the implementation of the Integrated Safety Management System (ISMS) and Voluntary Protection Program (VPP).

Total Recordable Case Incidence Rate



FY 2002 Rate Overview:
Cumulative To Date = 1.9
Lab Specified Level ≤ 2.2

This indicator has been generally stable over the long term and the data for the first three months of FY 2002 are within the anticipated control limits. The cumulative rate for FY 2002 is currently below the Lab Specified Level.

The following rating reflects the overall assessment of recordable case incidence for PNNL. *(Narrative not required when rating is green.)*

Green

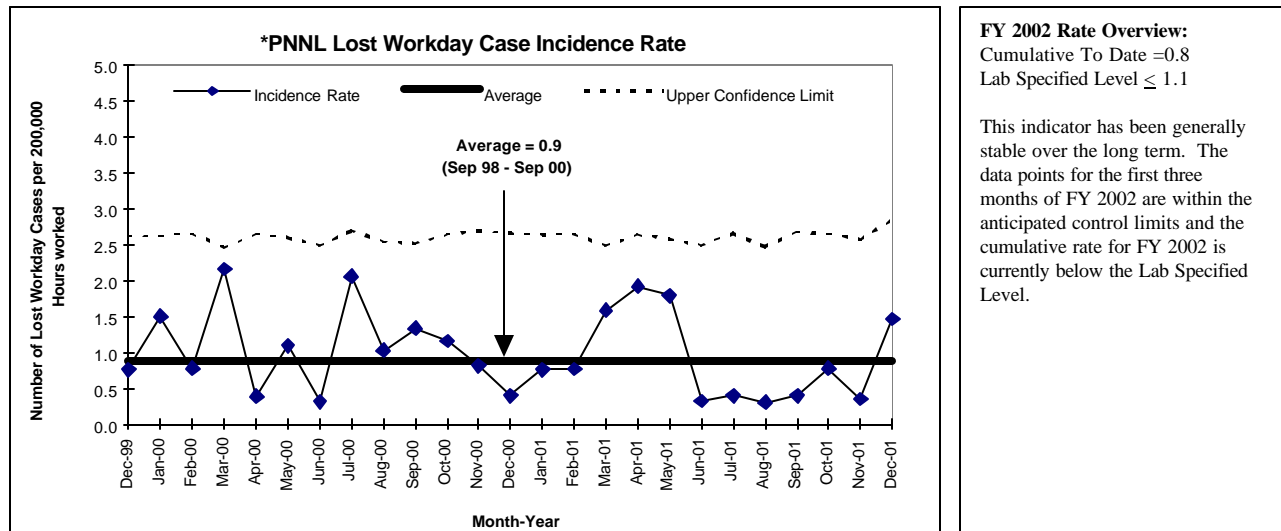
*Includes all Pacific Northwest National Laboratory Operations.

Green: Satisfactory

Yellow: Significant improvement required

Red: Unsatisfactory

Lost Workday Case Incidence Rate



The following rating reflects the overall last workday case incidence for PNNL. (*Narrative not required when rating is green.*)

Green

*Includes all Pacific Northwest National Laboratory Operations.

Green: Satisfactory	Yellow: Significant improvement required	Red: Unsatisfactory
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This section provides cost and schedule performance, any significant issues, baseline change request information for the period covered, and quarterly status on baseline performance outcomes, objectives, and measures. In FY 2002, Battelle Memorial Institute has lead responsibility over PBS RL-SS01, PNNL Waste Management WBS 3.4.1.7.

Mission

WBS 3.4.1.7 provides PNNL with waste management services and compliant operations in support of science and technology development for the multiprogramming needs of the U.S. Department of Energy (DOE) Complex. These services include:

- Essential surveillance and maintenance of DOE laboratory facilities assigned to PNNL for safe containment of radioactive and hazardous materials
- Infrastructure required to manage wastes and effluents currently generated at the PNNL
- Operational compliance services to meet regulatory requirements and operating permits including environment, safety, and health regulations
- Management of legacy wastes and contamination remaining from past PNNL research operations.

Activity Summary

The following summarizes the activities associated with PNNL Waste Management services and operations conducted during December 2001.

- Scheduled Radiochemical Processing Laboratory (RPL) radiological surveys and nuclear control inspections were performed. Miscellaneous surveillance and maintenance was completed on three facilities: 331-B, the 331-B Kennels, and the 306-W Powder Lab. No issues were found.
- Radiological air samples required during the month of December were collected and confirmed that all results received to date were within historical emission levels. The Environmental Molecular Science Laboratory (EMSL) monthly Discharge Monitoring Report (DMR) for November was submitted directly to the city of Richland on December 12, thereby satisfying the December deliverable within PNNL Milestone RLSS01F201. The DMR was submitted in accordance with Part III, Section A of Industrial Wastewater Discharge Permit No. CR-IU005. This report covered the period November 1 to November 30, 2001. All measured parameters for wastewater discharged to the Richland publicly owned treatment works were within permit limits.
- One hundred-fifteen National Environmental Policy Act (NEPA) reviews were conducted and the Threshold Planning Quantity (TPQ) monthly review of the PNNL's chemical inventory was conducted.
- A massive cleanout of legacy tank waste samples in Room 517 continues at the RPL. Over 300 samples are to be disposed. Work has begun to dispose of two legacy waste items located in the 331 Building. When these items have been disposed, all legacy waste items will have been removed from the 331 Building.

Performance Data and Analysis

As of December 30th, 2001, the cumulative costs are \$2.5M with a positive cost variance of \$.7M and a cumulative schedule variance of negative \$-1.2M. The cumulative cost variance is 23% and the cumulative schedule variance is a negative 27%. These variances are largely due to fiscal year startup issues, delayed billings and working under DOE continuing resolution.

Cost Performance (\$M):			
	BCWP	ACWP	Variance
PNNL Waste Management	\$3.3	\$2.5	\$.7
Schedule Performance (\$M):			
	BCWP	BCWS	Variance
PNNL Waste Management	\$3.3	\$4.5	(\$1.2)

FY 2002 Cost/Schedule Performance - All Fund Types **Cumulative to Date Status - (\$000)**

WBS	PBS	BCWS	BCWP	ACWP	CV	%	SV	%
3.4.1.7	RL-SS01	<u>\$4,469</u>	<u>\$3,273</u>	<u>\$2,534*</u>	<u>\$739</u>	<u>23</u>	<u>(\$1,196)</u>	<u>-27</u>
Total		<u>\$4,469</u>	<u>\$3,273</u>	<u>\$2,534*</u>	<u>\$739</u>	<u>23</u>	<u>(\$1,196)</u>	<u>-27</u>

*PNNL has \$1.194M carry over, is expecting \$15.044M new B/A in FY 2002, for a total of \$16.238M. Current new B/A obligated is \$3.263M.

Cost/Schedule Performance Spotlight

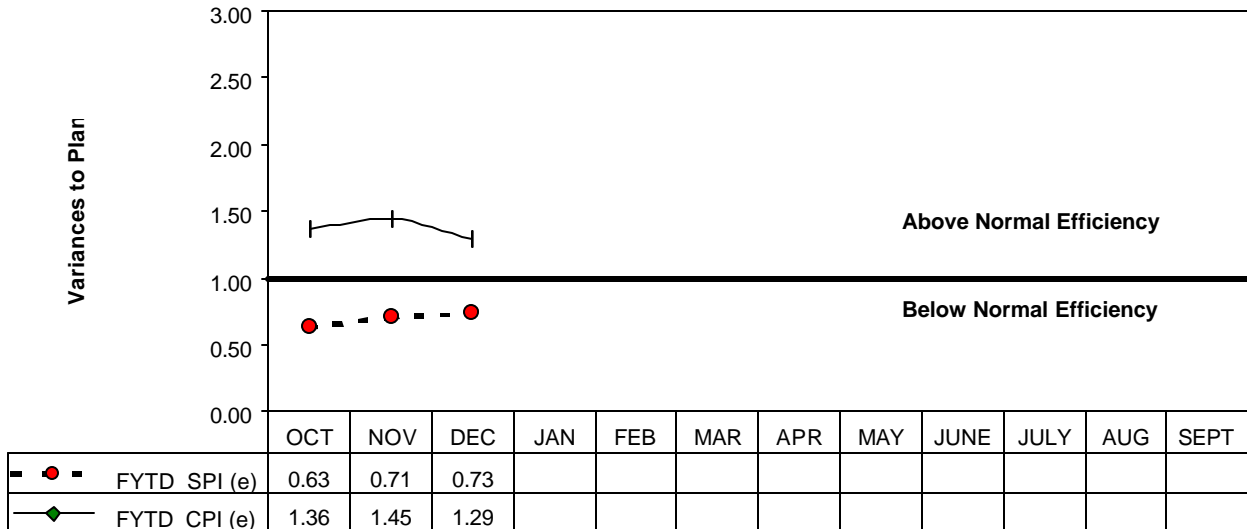
The following rating reflects overall cost and schedule performance for PNNL Waste Management activities. *(Narrative not required when rating is green.)*

<p>The cumulative cost variance is largely due to issues within the RPL and Legacy Waste Projects. Programmatic efficiencies and delayed billings attribute to the majority of the variance. The projects expect to complete within the approved budget.</p> <p>The cumulative schedule variance is largely due to fiscal year startup issues. Projects have been directed to work to FY01 allocations that were approximately 25% below planned project levels. A baseline change request will be processed to adjust the scope and schedule to reflect the FY02 authorized budget</p>	YELLOW
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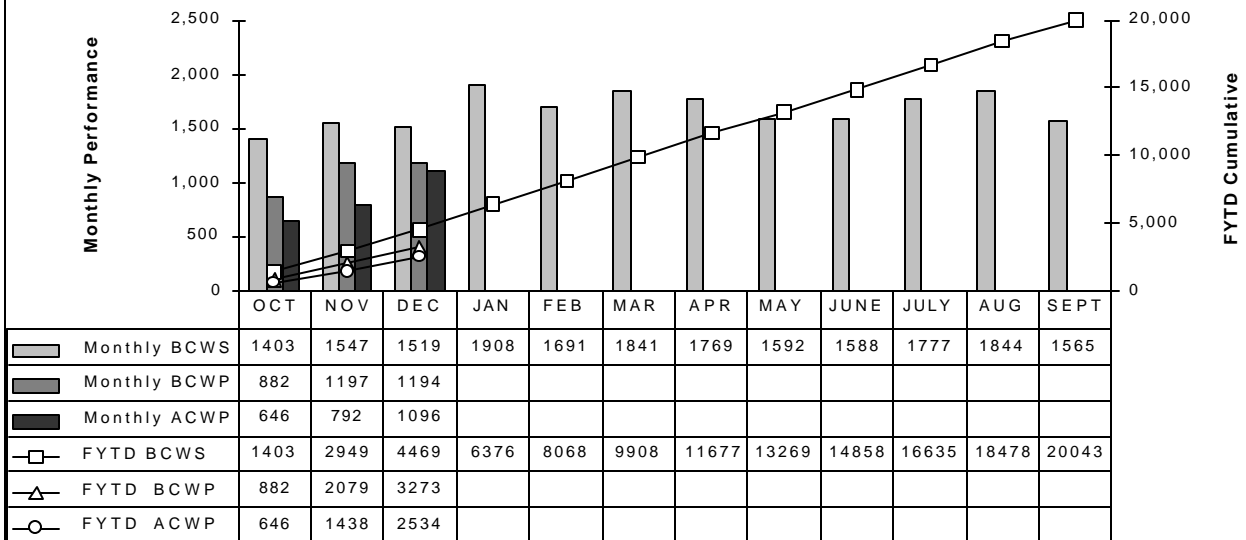
Green: Satisfactory	Yellow: Significant improvement required	Red: Unsatisfactory
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PNNL Performance Data and Analysis

Cost/Schedule Performance Indices (FYTD)



Performance Analysis
FYTD and Monthly (\$000s)



PNNL Environmental Management Performance Report – December 2001
Section B - Project Performance Summary

RL Objective	RL Multi-Year Performance Measure	Performance Measure	FY 2002 EM Commitment: Y/N	TPA # CMM#	FY 2002
RL Outcome: Put DOE assets to work for the future					
Operational Excellence Status:	Operate in a manner conducive to excellence and quality	Conduct routine operational activities to comply with statutory and regulatory requirements, specifically number of non-compliances (NOVs) related to environmental permit requirements There were no Notice of Violations issued to PNNL during the first quarter of FY-2002.	No		<2
Operational Excellence Status:	Operate in a manner conducive to excellence and quality	Maintain fiscal year end cost and schedule variances within established thresholds The WMOC Program cost variance for the first quarter is \$739K (23%). This is due to FY startup issues, delayed billings, and unfilled vacancies. The schedule variance is -\$1196K (-27%). This is due to FY startup issues and working under DOE continuing resolution.	No		+/- 10%
Safety Status:	Protect workers, the public and the environment	Initiate appropriate response to any unsafe condition identified during surveillance and maintenance of EM facilities assigned to PNNL within x days of discovery (as shown to the right) To date surveillances have not identified any unsafe conditions in shutdown facilities. Only minor maintenance items have been noted and they have been appropriately addressed with service requests. No unsafe conditions have been discovered in RPL that have resulted in an appropriate response initiation greater than one day. Any unsafe condition discovered in RPL is addressed immediately.	No		1
Safety Status:	Protect workers, the public and the environment	Quantity of HAZ waste (MT) shipped for storage or disposal During the first quarter of FY 2002, 6,000 Kgs. of non-radioactive hazardous wastes were shipped. A total of 6,000 Kgs. have been shipped for offsite treatment and disposal this fiscal year. This is in line with expected generation rates for FY 2002.	No		25,000 kg/FY
Safety Status:	Protect workers, the public and the environment	Quantity of RMW (m ³) shipped for storage or disposal. During the first quarter of FY 2002, 0 cubic meters of RMW (Mixed Waste) were shipped for a total of 0 cubic meters for the fiscal year to date.	No		25
Safety Status:	Protect workers, the public and the environment	Quantity of LLW (m ³) shipped for storage or disposal During the first quarter of FY 2002, 7.1 cubic meters of LLW (Low Level Waste) were shipped for a total of 7.1 cubic meters for the fiscal year to date.	No		125
Safety Status:	Protect workers, the public and the environment	Quantity of TRU waste (m3) shipped for storage or disposal During the first quarter of FY 2002, 9.2 cubic meters of TRU (Transuranic waste) was shipped for a total of 9.2 cubic meters for the fiscal year to date.	No		8

PNNL Environmental Management Performance Report – December 2001
Section B - Project Performance Summary

RL Objective	RL Multi-Year Performance Measure	Performance Measure	FY 2002 EM Commitment: Y/N	TPA # CMM#	FY 2002
Safety Status:	Protect workers, the public and the environment	Radiochemical Processing Lab (RPL) Authorization Basis maintained current per scheduled milestone Currently no safety issues exist in the RPL. As issues are identified, they are immediately addressed and mitigated.	No	RLSS01R204	7/31/02
<i>RL Outcome: Restore the River Corridor for multiple uses</i>					
Waste Disposal Status:	Dispose of Legacy Waste	Percent completion of annually scheduled legacy waste projects. During the first quarter of FY 2002, 27% of the annually scheduled legacy waste projects have been completed for a total of 27% for the fiscal year to date.	No		>90%
Waste Disposal Status:	Disposal of Special Case Waste	Support timely completion of TPA M-92-14: Complete disposition of PNNL Special Case Waste. On schedule: The waste is scheduled to be packaged in February, and will be shipped in March.	No	RLSS01L211	03/30/02
Reduce risks to the Columbia River from ground water contamination Status:	Number of soil sites addressed	Percentage of Waste Identification Data System (WIDS) sites characterized and associated surveillance/maintenance established. All waste sites have basic characterization data and identified S&M is being accomplished.	No		100%